

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/02

Date Received: 10/03/02

Project: Metro Self Monitor, PO# M68804

Date Extracted: 10/22/02

Date Analyzed: 10/22/02

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE  
FOR TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M68804 210031-01	0.27	0.28	0.19	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

**FRIEDMAN & BRUYA, INC.**

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Project: Metro Self Monitor, PO# M68804

**QUALITY ASSURANCE RESULTS  
FROM TOTAL METALS BY  
INDUCTIVELY COUPLED PLASMA (ICP)  
(METHOD 6010)**

Laboratory Code: 210143-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.51	0.53	4	0-20
Copper	mg/L (ppm)	0.60	0.61	2	0-20
Nickel	mg/L (ppm)	0.55	0.56	2	0-20
Zinc	mg/L (ppm)	0.06	0.11	a	0-20

Laboratory Code: 210143-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	Acceptance Criteria
Chromium	mg/L (ppm)	2	0.51	89	80-120
Copper	mg/L (ppm)	2	0.60	90	80-120
Nickel	mg/L (ppm)	4	0.55	89	80-120
Zinc	mg/L (ppm)	2	0.06	91	80-120

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	95	96	80-120	1
Copper	mg/L (ppm)	2	92	94	80-120	2
Nickel	mg/L (ppm)	4	94	96	80-120	2
Zinc	mg/L (ppm)	2	94	94	80-120	0

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

**FRIEDMAN & BRUYA, INC.**

**ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

October 24, 2002

**DUPLICATE COPY**

**INVOICE # 02ACU1024-2**

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M68804 - Results of testing requested by  
Gerry Thompson for material submitted on October 3, 2002.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due ..... \$ 80.00

FEDERAL TAX ID # (b) (6)

210031

## SAMPLE CHAIN OF CUSTODY

CM 10/3/02 A14

Send Report To G. Thompson  
 Company Alaskan Copper Works  
 Address 628 S. Harvard St  
 City, State, ZIP Seattle WA 98134  
 Phone # 206-782-8379 Fax # 206-782-4509

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>metno self monitor</u>	PO # <u>M68804</u>
REMARKS	

Page # _____ of _____
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	COCA, n, p, z				
M68804	01	10/3/02	12:30	H2O	1							✓				

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>G. Thompson</u>	<u>ACW</u>	<u>10/3/02</u>	<u>1:40 AM</u>
Received by: <u>[Signature]</u>	<u>Fred Wolf</u>	<u>F&amp;B, Inc</u>	<u>10/3/02</u>	<u>1:45 PM</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

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e-mail: fbi@isomedia.com

October 24, 2002

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on October 3, 2002 from your Metro Self Monitor, PO# M68804 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU1024R.DOC